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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/834,591	04/13/2001		Kenneth James Barker	RAL920000013US2	4261	
25299	7590	06/30/2005		EXAMINER		
IBM CORI	PORATIO	N	CHANG, RICHARD			
PO BOX 12		00	ART UNIT	PAPER NUMBER		
DEPT YXS	•			TAI EK NOMBEK		
RESEARCE	RESEARCH TRIANGLE PARK, NC 27709				2663	
				DATE MAILED: 06/30/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/834,591	BARKER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Richard Chang	2663				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reg. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 3/1/	2005.					
	is action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 2,3 and 5-11 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) 9 is/are allowed. 6) ⊠ Claim(s) 2,3,5-8 and 10 is/are rejected. 7) ⊠ Claim(s) 11 is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on <u>04/18/2002</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	☐ accepted or b) ☐ objected to by e drawing(s) be held in abeyance. Sec ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		ate Patent Application (PTO-152)				

DETAILED ACTION

Response to Amendment

1. Applicant's arguments with respect to claims 2-3 and 5-9 have been fully considered but are most in view of the new ground(s) of rejection.

Claims 1 and 4 had been canceled.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2-3, 5-8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of US patent 4,731,785 ("Ferenc et al.") and US patent 4,873,663 ("Baranyai et al.").

Regarding Claims 2, 5 and 6-7, The admitted prior art teaches a fast Ethernet system (2), which services 10 Ethernet networks (6) (for coupling a plurality of sources to a single processing chip) comprising of:

a multi-port physical layer (4) (a substrate including a system for processing Ethernet inputs),

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a chip clock at a particular speed allowing each of the ports to be serviced during each of the clock cycles (a clock input for determining a time period for processing the input from a single source) (See Fig. 1, page 6, line 17 – page 7, line 13).

The admitted prior art lacks or does not disclose expressly the particular application involving limitation of

"a single input gate for a single input" and

"a sequencer which determines which source is being processed during the time period and which services a different source during the next clock period".

Ferenc et al. teach apparatus and a method for transmitting both circuit switch and packet information over a common time division multiplexed digital path comprising of

a single common time division multiplexed (TDM) digital signal path conductor (109) (a single input gate for a single input) between transmitter (101) and receiver (121) (See Fig. 1, Col 4, lines 35-36), and

a circuit switch (102) (TDM sequencer) supplying necessary clock and timing signals to control multiplexer (105) (determines which source is being processed during the time period and which services a different source during the next clock period) (See Fig. 3, Col 6, lines 56-60).

A person of ordinary skill in the art would have been motivated to employ Ferenc et al. in the admitted prior art in order to obtain a fast Ethernet system servicing a plurality of Ethernet networks and to take advantage of using only a single TDM link and

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the TDM sequencer to service different sources at different time period in claims 2, 5 and 6-7.

The suggestion/motivation to do so would have been to transmit data from different sources on a single TDM link, as suggested by Ferenc in Col. 1, line 64, to Col. 2, line 1. At the time the invention was made, therefore, it would have been obvious to one of ordinary skill in the art to which the invention pertains to combine Ferenc et al.with the admitted prior art to obtain the inventions specified in claims 2, 5 and 6-7.

The admitted prior art and Ferenc et al. lack or do not disclose expressly the particular application involving limitation of

"a signal for indicating when a given source is being processed".

Baranyai et al. teach a methods and apparatus for timing control the TDM network comprising a Frame Sync signal for indicating when a given source is being processed in the corresponding time slot relative to the Frame Sync signal wherein each clock period identifies a source sequentially (See Fig. 3, Col. 3, lines 40-47).

A person of ordinary skill in the art would have been motivated to employ Baranyai et al. in the admitted prior art and Ferenc et al. in order to obtain a fast Ethernet system servicing a plurality of Ethernet networks and to take advantage of using a Frame Sync signal for indicating when a given source is being processed in the corresponding time slot relative to the Frame Sync signal wherein each clock period identifies a source sequentially in claims 2, 5 and 6-7.

The suggestion/motivation to do so would have been to use a Frame Sync signal for indicating when a given source is being processed in the corresponding time slot

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relative to the Frame Sync signal wherein each clock period identifies a source sequentially, as suggested by Baranyai et al. in Col. 3, lines 40-47. At the time the invention was made, therefore, it would have been obvious to one of ordinary skill in the art to which the invention pertains to combine Baranyai et al. with the admitted prior art and Ferenc et al. to obtain the inventions specified in claims 2, 5 and 6-7.

Regarding claim 3, 8 and 10, this claim have limitation that is similar to those of claim 3, 8 and 10, thus it is rejected with the same rationale applied against claim 3, 8 and 10 above.

Allowable Subject Matter

- 4. Claim 9 is allowed.
- 5. Claim 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and if no art rejection can be applied.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chang whose telephone number is (571) 272-3129. The examiner can normally be reached on Monday - Friday from 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

De rkc

Richard Chang Patent Examiner Art Unit 2663